



SOBT Training Trends

The Submarine On Board Training Newsletter

Your ideas are needed now more than ever!

Admiral's Corner



One of the great strengths of the SOBT Program is the strong feedback the fleet provides the SOBT staff. Just about every new SOBT product is a result of an idea from the fleet and updates to existing products are produced using the same feedback. For example, the new Tomahawk, ADCAP, and Submarine Qualification computer-based training products making their way to your submarine all started with a request from the

fleet. Because of the importance we place on this valuable aspect of the program, the SOBT Director sends a personal response to every feedback received.

Your ideas are needed now more than ever. The SOBT Staff is in the process of defining project priorities for the next fiscal year. If there is a SOBT product that you have used recently that you think should be updated, or if you have the need for a new training product, let the SOBT staff know. SOBT staff members will be visiting each submarine homeport this spring to speak directly to as many of you as possible about our products. If they are not able to visit your submarine, you can still provide us your ideas by letter, phone, fax, or email. The numbers and address are located in this newsletter.

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We look forward to hearing from you.

M. I. Fages

Suggested Distribution of Copies

CO, XO, and COB (1 copy) - SOBT Products Manager (1 copy)

This distribution of SOBT Training Trends will ensure that everyone will be aware of new SOBT products available for training needs. After routing, file one copy in each SOBT Products Catalog for future reference.

Distribution Statement C: Distribution authorized to U.S. Government agencies and their contractors (operational use - January 98). Other requests for this document shall be referred to Commander Submarine Group TWO.

Combat Systems

Attack Center Training Using SOBT Products



A recent SOBT Feedback report from CDR Root, Commanding Officer of USS West Virginia (Blue) provided new light for Fire Control Tracking Party training. Utilizing two SOBT computer based products, INDY and PC Periscope, you can conduct Anti-Surface

Warfare (ASUW) attacks without real life contacts. It also provides practice for the approach officer and periscope assistant in making observations and allows realistic inputs to both the plots and the Fire Control System for solution development.



CDR Root's procedure is outlined below.

1. Two operators/facilitators are required, one on the INDY trainer, and one operating a laptop on the Conn. with the PC Periscope program running. Prior to the exercise, a target set is created in the PC Periscope that contains only one ship.

This will prevent the program from attempting to randomly select targets during the approach. The desired target run geometry is put into INDY.

2. The observation procedure is simple. Just prior to an observation by the approach Officer, the INDY operator passes the target information to the laptop, who sets the angle on the bow and range in the PC Periscope program "Set Trials" mode to match actual contact parameters. He also selects the number of trials to 1. The periscope exposure time can be set in the program to allow the Approach Officer to work on making observations with minimum mast exposure, if desired. The program is then shifted to the "Begin Testing" mode for the observation. With a little practice, this preparation process can be completed in 10 to 15 seconds. The periscope assistant raises the scope and 'pickles' the actual bearing to the INDY contact while the Approach Officer makes his observation based on what he sees in the PC Periscope's visual display. PC Periscope also gives an immediate assessment of the Approach Officer's observation by displaying actual versus called parameters.

CDR Root continued on to say that "having a laptop computer on the Conn. with SOBT products such as PC Periscope, Mental TMA, DOOW, Submarine Surfaced Shiphandling and Rules of the Road gave the Officers of the Deck a great way to keep their skills honed during lulls in their watches."

Incidentally, SOBT is producing an update to both of the INDY and PC Periscope programs that will be networked together to provide an even more valuable training tool. Expect to see these programs later this year. *Thank you very much CDR Root for your valuable input.*

TOMAHAWK Training Products Update

We have received numerous phone calls asking what SOBT training products exist for the Submarine Launched Tomahawk Cruise Missile. In addition to this question, we have also been asked what products are being developed for Tomahawk training.

The following article outlines current SOBT products and identifies SOBT products under development for vertical launched and horizontal launched versions of the Tomahawk Cruise Missile.

Tomahawk training products contained in the SOBT Library:



Videos:

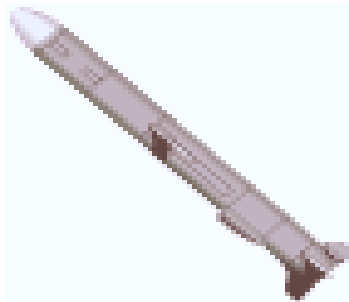
- Electronic Tomahawk Employment Training Package (SVT-W-9607)
- Submarine VLS Operations (SVT-W-9477)
- Submarine VLS Loading and Handling (SVT-W-9478)
- TLAM Retargeting Process (SVT-W-9605)
- Tomahawk TTL PVC System Operations (SVT-W-9606)

Computer-Based Products:

- CCS Mk-1 VLS Training Model (CBI-F-9702)
- AN/BSY-1 VLS Training Model (CBI-F-9703)
- CCS Mk-1 TTL Training Model (CBI-F-9604)
- Cruise Missile Trainer - Personal

- Computer (CMTpc) (CBI-W-9652)
- SSN 688 Class VLS PVC System Operations (CBI-W-9853)
- Tomahawk CLS Loading and Handling Operations (CBI-W-9682)
- Tomahawk Supervisor and Manager (CBI-W-9624)
- Tomahawk VLS Onloading and Maintenance Operations (CBI-W-9660)

Based on feedback from the fleet, the Submarine Tomahawk Action Board (STAB), and other sources,



the following is a list of currently funded products under development for the SOBT Program:

Videos:

- Submarine VLS Tube Close-Out Procedures (SVT-W-9770)
- Submarine TTL PVC System Operations Update (SVT-W-9774)
- Submarine Missile-Mission-Matching (M³) (SVT-F-9862)
- Submarine VLS Operations (SVT-W-9858)
- Submarine Ram Pump Upgrade (RPU) Operations (SVT-W-9859)
- Submarine VLS Receipt and Onload Operations (SVT-W-9860)

Computer-Based Products:

- Tomahawk Cruise Missile Casualty Procedures (ICW-W-9854)
- Tomahawk VLS PVC System Operations (ICW-W-9855)

- Tomahawk TTL PVC System Operations (ICW-W-9856)
- Submarine Tomahawk Block III Characteristics (ICW-W-9869)
- Submarine Tomahawk Block III Employment (ICW-W-9863)
- AN/BSY-1 TLAM TTL Training Model (ICW-F-9779)
- CCS Mk-2 TLAM TTL Training Model (ICW-F-9857)
- CCS Mk-2 TLAM VLS Training Model (ICW-F-9861)
- VLS Theory of Operations & Hydraulics System Fault Isolation (ICW-W-9865)
- VLS PVC System & Flood and Drain System Operations (ICW-W-9867)
- VLS Tube Preventive and Corrective Maintenance Concepts (ICW-W-9864)
- VLS Missile Tube Control Systems and Indications (ICW-W-9866)

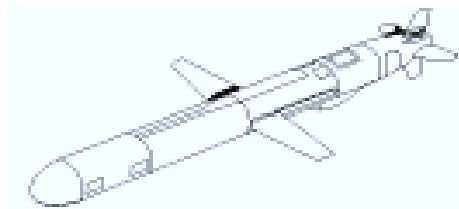
Most of the above listed are in the early stages of development; as they proceed on through the development cycle and get closer to becoming final, I will write follow-up articles to help keep you informed.

Your feedback and inputs are the major contributing factors in getting the funding necessary to develop products. We want to hear! We do listen to what you need and what you want to supplement your on board training needs.

Your point of contact for Tomahawk training products is Mr. Roy Piper.

TLAM ENGAGEMENT TRAINING - PLANNING CONTINUUM UPDATE

In the July 97 issue of the SOBT Training Trends, we published a sample TLAM Training Planning Continuum. To date, I have only received a few comments from local commands as to the possible uses of this planning tool. In an effort to completely evaluate the effectiveness of this continuum, I would like to hear from the fleet user's to see if this is something that I should maintain and publish on an annual basis.



If you have not had a chance to review the TLAM Training Planning Continuum, please take a few minutes and look it over. Let us know what you think via a SOBT Feedback Form, but more importantly; let us know if this provides you with a useful planning instrument. We encourage your inputs and comments so we can better provide you with the best training products and support possible.

In addition, as the products listed in the "Tomahawk Training Products Update" article in this issue are completed, the continuum will be updated to reflect the latest training products available for your planning purposes.

Your point of contact for Tomahawk training products is Mr. Roy Piper.

Cruise Missile Trainer - Personal Computer (CMTPC) (CBI-W-9652) Interface Cable



In early December, SOBT shipped out the RS-232 Interface cable to all Tomahawk capable submarines. Instead of issuing an A&I for its installation and use, NAVSEA issued a letter to the Type Commanders authorizing the use of the same configuration change management process as normally used by software upgrades for the RS-232 cable.

Both COMSUBLANT (N42) and COMSUBPAC (N74) have issued messages authorizing the use of the CMTPC RS-232 Interface Cable in late November 97 (212014Z Nov 97 and 240027Z Nov 97, respectively).

The instructions for installation and use of the RS-232 Interface cable with the CMTPC program is contained in the User's Guide that accompanies the CMTPC computer diskettes.

The authorization for use of the interface cable brings to completion the development and distribution of a very valuable and powerful Strike Warfare training product for both the submarine and surface warfare communities. As your unit utilizes the CMTPC program, please send us your feedback and let us know what you think. Your feedback will

provide SOBT with needed information for future upgrades and improvements to the CMTPC program.

Your point of contact for submarine Tomahawk training is Mr. Roy Piper.

SOBT COMBAT SYSTEMS / TORPEDO TOP DOWN REVIEW

Recently, SOBT called in about a dozen ADCAP/weapons Subject Matter Experts (SME's) to brainstorm and discuss "where we are, and where we want to go with combat systems and torpedo SOBT training. Whenever these roundtable discussions are held, normally at SOBT product reviews, it never ceases to amaze me how much valuable information is exchanged and shared. Software (TORP. and F/C), hardware, configuration control, documentation/NWP's, weapon types, build differences, TRE's, MRCI's, training products, and product format (video / CBI etc.) were all discussed. If YOU have any ideas for SOBT in any of these areas PLEASE put them down on paper, or better yet, a SOBT feedback form, and send or fax them here to SUBGROUP TWO. I also want to thank all those, both military and civilian that took time to attend. POC's Joe Valchar and FTC(SS) Mike Lindsey.

TORPEDO MK 48 ADCAP POST LAUNCH TRAINER COMPACT DISK (CD)

If any of you "weaponeers" have had any problems loading this trainer (I.E. LOCKUPS), the Operators Manual instruction is missing a step. The CD requires a DOS mouse driver to be resident before installation and subsequent execution. Lack of a DOS mouse driver may cause the APLT program to lock-up. See your particular computer's documentation to install a DOS mouse driver. (e.g. C:\DOS\MOUSE.EXE)



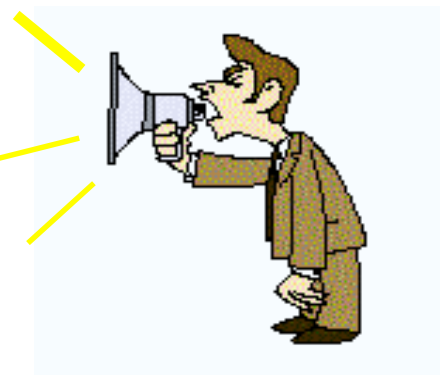
TORPEDO MK 48 ADCAP POST LAUNCH TRAINER MK 48-6/ C4.2V2 UPDATE

A New Years gift to all you ADCAP MK 48 MOD 6 (MODS/TPU) shooters will soon be in the mail. About 20 new shallow water freeplay scenarios on diskette with C4.2V2 fire control software will be used with existing APLT CD software. Look for this super state-of-the-art weapons training update in the early weeks of CY 98. Your point of contact is Mr. Joe Valchar.

Operations/ Communications

HELP!! HELP!! We need Fleet

inputs to identify training topics for your on board training in Operations and/or Communications. These topics can include training requirements, areas where training is needed, or topics of interest. If you could take a few moments from your very busy schedule to fill out a SOBT Feedback Report or give me a call at the SOBT office, it would help to formulate a list of training requirements for future development. This same request was made in the last newsletter, and to date we have not received any fleet responses. The only ideas we have for future development in the Communications area include BGIXS II, JDISS and JTIDS operations. Other possibilities include training on future equipment installations including Battle Force Email and MCIXS. Your thoughts and ideas would be greatly appreciated.



Navy Electricity & Electronics Training Series (NEETS) (CBI-GT-9719)

NEETS was a subject of discussion in the last few newsletters and I still get numerous calls concerning distribution. This EWOBT course conversion, designed to run on the SOBT Panasonic CF-41, has run into a number of different problems and concerns. All of the problems have been resolved and distribution should be within 30 days. This course currently will only run in Windows 3.11 or DOS. We will attempt to have this course converted to run in the Windows 95 and NT environments at a later date. After you receive this course, please give it a good review and provide your feedback to me at the SOBT office.

AN/USC-42(V)1 Miniaturized Demand Assigned Multiple Access (Mini-DAMA) Communications Set (CBT) This course was scheduled for completion in May 1997. It was distributed by NISE East in June 97, but has not been officially promulgated by SOBT. We have performed a final review of the course material, and numerous revision of the courseware is expected. We do not expect formal distribution until at least February 1998. Submarine distribution of this course is limited to USS Scranton (SSN 756), USS Seawolf (SSN 21) and PCU Connecticut (SSN 22). Courseware for the AN/USC-42(V)2, which will be installed on all other submarines, is under development.

Over-The-Air Transfer (OTAT)/Over-The-Air-Rekey (OTAR) Procedures Video (SVT-C-9764)

This video will introduce the equipment associated with OTAT/OTAR, and provide step-by-step procedures for conducting OTAT/OTAR. The OTAT/OTAR training video, in the final stages of development, should be ready for distribution in the next 30 days.



Navy Satellite Communications Video (804908)

This video was deleted in May 1997. It presented outdated information and no longer contained enough training value to warrant its retention. A replacement video (Submarine Satellite Communications Overview) was started in July 97. It provides information on Submarine UHF/ EHF equipment, basic satellite information (footprints, orbit, etc.), circuits and their differences, and basic operations. It will assist in onboard indoctrination and refresher training.

Basic Computers (CBI-GT-9718)

This CBI was distributed in late March 1997. It consists of six modules with lessons on Database Communications and conjunction with provide a basic and operation. We Reports on this CBI. impossible for us to the training feedback to this courseware as soon as possible.



Submarine Voice Communications Video (SVT-C-9775)

This video is an update to the Submarine Voice Communications (SVT-C-9480) which contained some minor errors. This video provides voice communications procedures the submarine uses during task group operation, operations with aircraft and communications via a satellite. This video provides information concerning call up, relay, authentication, and EEFI procedures. The Submarine Voice Communications training video, in the final stages of development, should be ready for distribution in the next 30 days.

AN/UYK-43 Diagnostics Procedures Video (SVT-DS-9778)

The AN/UYK-43 Diagnostics Procedures Video is a 30 minute video providing refresher training on software diagnostics, diagnostic routines, and failure isolation. This video, in the final stages of development, should be ready for distribution in the next 30 days.

Other Communications SOBT products currently under development include:

- SEAWOLF Radioman of the Watch (ICW)
- SEAWOLF Exterior Communications Combined Maintenance (ICW)
- Submarine EHF Communications System Overview Video
- VLF FSK/STANAG 5030 Procedures Video
- AN/BRR-6B Towed Communication Buoy Virtual Equipment Trainer (ICW)
- Submarine Emergency Communications Video
- Communications Planning Video Update
- Battle Group Communications Video Update
- Submarine Message Buffer (SMB) Operation and Maintenance ICW Update (Software Revision 5.5)
- Submarine EHF Antenna Installation and Removal on the

Submarine Video

- Submarine EHF Antenna Installation and Removal in the Optical Shop Video

Two Submarine ELF Communications related videos were placed on hold until the release of the latest changes to the ELF Operations reference publications. These revised publications are expected during the 1st quarter FY98, at which time development of the two Submarine ELF Communications videos will continue.

Commander, Space and Naval Warfare Systems Command is sponsoring the development of the Submarine Communications Support System (SCSS) training curriculum. This curriculum will be used in the schoolhouse for formal training, and will also be provided to submarines for Submarine On Board Training. SCSS was formerly named SubECS (Submarine Exterior Communication System). SCSS includes the following Computer-Based Training modules.

- Submarine AN/WRR-12 (SLVR) Operation and Maintenance
- Submarine Message Buffer (SMB) Operation and Maintenance (Software Revision 5.2)
- Base Band Switch (BBS) Operation
- Time Frequency Distribution System (TFDS)
- OE-538/BRR Operation and Maintenance
- Submarine Antenna Distribution System (SADS)

Submarine Communications Support System (SCSS) System Level

Your point of contact for Operations/Communications is Mr. Terry Harding.

Navigation/ Operations

**ELECTRONIC TECHNICIANS
(ET, RM, QM, IC
RATING MERGER)**

SIGNAL RECOGNITION TRAINER

As stated in the last newsletter the signal recognition trainer is here and as of this writing has been distributed to every SSN/SSBN, Group and Squadron in the fleet! This trainer is SECRET so to save money on registered mail we ship a box to the squadrons with all the packages for the units assigned. Most were mailed late November through early December so if you have not received it yet first check onboard with the radiomen to see if it was received then check with squadron.

Your point of contact is ETC (SS) Larson.

MANEUVERING BOARD TRAINER UPDATE

We have received comments from the subject matter experts on the update to the maneuvering course and those are being added as we speak. I expect this course to be pressed and ready for me to distribute by early late March 1998.

Your point of contact is ETC (SS) Larson

ELECTRONIC TEST EQUIPMENT VIDEO

Last year the ET rating merger was in progress and you the fleet sent in feedback requesting some sort of training on test equipment to help. SOBT took this on and I believe we have met your request with a new video called ET Electronic Test Equipment. This video shows basic set-up and operation of the following pieces of test equipment: Gigatronics 1026 signal generator, Tektronix 2246 O'scope, Hewlett Packard 432 Power Meter, Tektronix 1502 Time Domain Reflectometer, and the AN/77 Fluke Multimeter. I have received the draft version and it is being reviewed for approval. The video is 45 minutes and looks like it will meet the need that was requested for last year. I expect the review to be completed in Jan with a final approved in Early February. This should put it on its way to you by April.

Your point of contact is ETC (SS) Larson.

SOBT WEB PAGE ([Http://www.csg2.navy.mil/sobt](http://www.csg2.navy.mil/sobt))



Yes SOBT does have a web page and its up ready for you to take a look. On here you will find the status on our newest products as well as the most current/past newsletters. There is also an on-line feedback form for you to send us your UNCLASSIFIED comments or suggestions. So if you are surfing the web or are looking for the most current SOBT information stop on by and check us out.

The SOBT Web Master is ETC (SS) Larson.

AN/WRN-6 GPS OPERATION ICW



I have the beta version in hand and we are in the review process. This course shows basic operation and set-up of the equipment including data entry. This is an excellent tool for use in those qualifying QMOW and Navigators who need to learn the operation of the equipment. This will replace the current (10) 3.5 disk DOS based course and has had the graphics updated. This course will also provide scores for use in tracking individual qualifications.

Your point of contact is ETC(SS) Larson.

SUPPLY/SK/RPPO**REPAIR PARTS PETTY OFFICER
COURSE**

This course is on a 2 CD set and is currently being reviewed by SUBLANT and SUBPAC as well as the SME's. This course was designed from the current course at SUBSCHOOL as well as updating it with the current SNAP configuration. In this course the beginner RPPO will learn about the supply system and how it works. He will learn necessary steps in preparation to see the lead SK and Supply Officer. The plan is to have this course accredited so when completed it will count the same as going to the school.

Your point of contact is ETC (SS) Larson.

DIVERS**DIVERS INSPECTION VIDEO**

To give an update this video is for added training to the ship divers in the area of doing an underwater inspection on the boat. This video will cover things to look for, safety precautions, and will show how to complete an inspection. The video script for this video has been finalized and we will be starting to gather the needed video for its completion I expect that this will be ready for a summer release.

Your point of contact is ETC (SS) Larson

NON DIVING SUPERVISOR ICW

This course is being developed for refresher training for Non Diving supervisors. It was developed based off of the current course being taught and will be able to supply refresher training for graduates from the school. The draft script is completed and programming has started. Look for this the end of summer 1998.

Your point of contact is ETC (SS) Larson.

**Strategic
Weapons****Strategic Weapons Systems (SWS)
Interactive Courseware (ICW)
update**

Two more (SWS) Interactive Courses are added to the SOBT library. Trident II Launch Tube Air Tightness Test and C4/D5 Missile Tube Hydraulics were distributed last quarter. These CD-ROM based courses apply to all Trident submarines, groups, squadrons, and Training commands.

**Trident II Launch Tube Air
Tightness Test, (ICW-L002)**

Provides self-paced training on the TRIDENT II launcher subsystem Mark 46 Mod 0, launch tube air tightness test. Designed for technicians who have at least one patrol experience and have completed Missile Technician (MT) conversion or replacement training. This ICW does not provide an in depth theory of the launch tube air tightness test. This ICW renders a basic understanding of the launch tube, its associated components, and more importantly an operational understanding of the launch tube airtight ness test Standard Maintenance Procedure (SMP).

This ICW focuses on the Missile technician who will conduct or supervise the Launch tube air tightness Test SMP. Other personnel required for the conduct of the launch tube air tightness test will be included in the ICW only as required for the trainee to understand the coordination of events between required personnel. The course provides a basic description of the launch tube, installation/removal of test equipment and the theory necessary for satisfactory completion of the Launch tube Air tightness Test.

C4/D5 Missile Tube Hydraulics (ICW-SS002)

This course provides refresher training for Trident I and Trident II Missile Technicians. This ICW provides self-paced training on the missile tube hydraulic system for experienced personnel. The course also supports pre-maintenance training for personnel trained on SWS hydraulics in MT "C" school; but who have no practical experience working on the system. This course presents Hydraulic component location, purpose and relation to other systems including the hydraulic security enclosure (HSE) hydraulic security alarm panel (HSAP) and the hydraulic block description.

Your point of contact is Mr. Paul Knieser.

Laptop Computers

Technical Support for PANASONIC Laptop Computers

NOTE: Do not open the access covers to the Panasonic laptop computers to attempt repairs. The laptops are covered under a maintenance contract with Panasonic, opening the covers will void the warranty.



The SOBTDS Repair Facility provides all technical support. The Facility may be accessed by calling the toll free technical support telephone number (800-828-6289) or (468-3719 in 757 area code) between the hours of 0800 - 1700 (Eastern Standard Time) Monday through Friday. A 24 hour-a day Electronic Bulletin Board Service (EBBS) using a toll free (800-376-2837) (800 3SOBTDS) (468-8632 in 757 area code) number has been established at the Repair Facility to assist Fleet personnel in obtaining technical support and information for the Panasonic Laptops. Fleet personnel may make Technical inquiries via either the "800" voice line or by using the EBBS. Technical support personnel knowledgeable in the

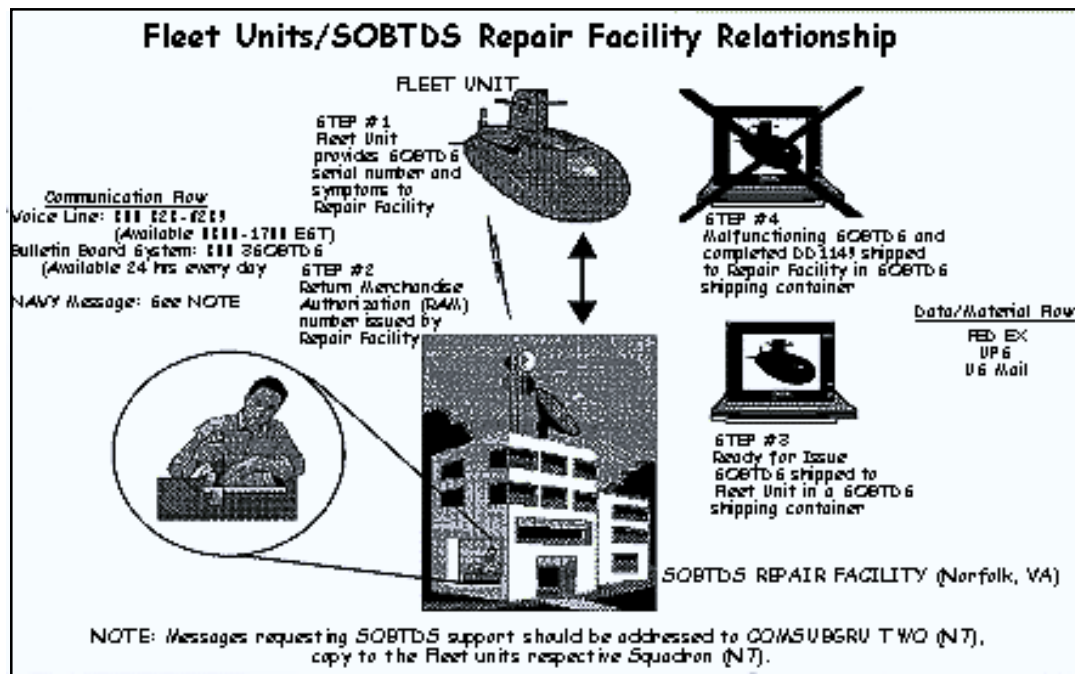
SOBTDS will assist Fleet users in identifying whether repairs can be affected locally or if Repair Facility servicing is required.

If you need assistance with a broken or malfunctioning Panasonic laptop call the SOBTDS Repair Depot at (800) 828-6289 / 9567. Call the SOBT office with all other questions and comments. Your point of contact is Mr. Paul Knieser at DSN 449-2895 or commercial (860) 449-2895.

Support for laptops used on the SNAP or ADIS systems is provided by the Naval In-Service Engineering Center East Detachment Norfolk's Joint Maritime Command Information System (JMCIS). Broken or malfunctioning laptops used on the SNAP or ADIS system should be referred to JMCIS. Call JMCIS at 1 (800) 869-6413 for repair or technical support.

Step by Step Procedures

- Step 1. Laptop Malfunction.** SOBTDS end-users should attempt to determine the nature of the SOBTDS malfunction by following the troubleshooting procedures in the Panasonic V41 Operators Handbook. SOBTDS users should then contact the Repair Facility for additional technical assistance.
- Step 2. Contacting the SOBTDS Repair Facility.** SOBTDS users may make technical inquiries to the SOBTDS Repair Depot at the phone numbers provided above. If you need to call after hours or on weekends using the electronic bulletin board (EBBS) you will be prompted to leave a message. Include in the message your command, your name, phone number and a description of the computer problem. Repair Facility personnel will contact you the next business day. You will be asked for the serial number of the malfunctioning unit prior to receiving assistance. If repairs cannot be effected locally the unit will be returned to the SOBTDS Repair Facility for processing.
- Step 3. Preparing a Unit for Shipment to the SOBTDS Repair Facility** Activities holding a malfunctioning laptop shall prepare a description of symptoms or indication of the malfunctions. The description should be attached to the DD Form 1149 provided by the Repair Facility and forwarded with the malfunctioning unit to assist in troubleshooting.
- Step 4. Returning a Unit to the SOBTDS Repair Facility** Once it is determined that a laptop must be returned to the Repair Facility for repair, the activity holding the malfunctioning unit will be provided a Return Merchandise Authorization (RMA#) by Repair Facility. The Repair Facility uses the RMA# to track the unit and ensure appropriate processing. A Ready for Issue (RFI) unit will be shipped to the requesting activity in a SOBTDS shipping container along with the 1149. Activities with malfunctioning units shall hold them until they receive the RFI unit. Upon receipt of the RFI unit, the receiving activity shall place the malfunctioning unit in the shipping container and follow the shipping instructions provided.



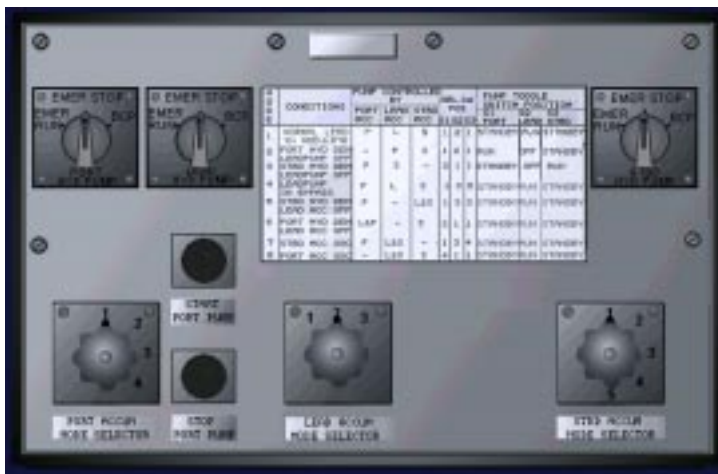
Engineering

PEARLS FROM THE OYSTER

Thanks for all the phone calls! Seems like everyone is starting to take notice (especially now that the TRE teams are asking if you're using SOBT products). Let me see if I can offer a security blanket for those cold-hearted questions and maybe enhance your training at the same time.

For the Trident sailors, I have just kicked off a video project for SSBN 726 Hatches and Watertight Doors. This video will cover PMS requirements for MRC's Q-9 and S-1, and will walk the individual through each step from beginning to covering the of the MRC. The video distributed some time in the

For the 688 guys, three CO-H2 Burner Operator and Maintenance ICW, and Operation and Maintenance designed for use by newly Burner is taught for the current Auxiliary refresher prior to the The Hydraulic Power Plant section to click-and-drag accumulator!



projects to look for are the ICW, the R-12 Operation, the Hydraulic Power Plant ICW. Each product is reported personnel (CO-H2 exactly one-half of one day in Package Course) as well as a performance of maintenance. product will even offer a parts to assemble an

And for all A-Gangers, some products that I'm looking at for possible future distribution are commercially produced videos that teach how to use hand tools and precision instruments, align pumps and motors, and use and care for shop machinery such as the bench grinder or lathe. Keep in mind that some of these videos will be new material for your junior personnel. But they will also give you more training options when it comes time to write the next long-range training plan.

While I'm on the subject of training plans, let me give you a little helpful insight to giving more effective, interesting training. A common misconception with videos is that the Chief or LPO can just throw the video in the VCR and come back in 45 minutes and training is over. I know that everyone has been guilty of this at one time or another. The proper way to use any training video is for the Chief or LPO to preview the video and then use only the segments that are applicable to your topic, or pause the tape during the actual presentation and ask questions of your personnel to ensure they're understanding the information. Both the methods described require prior planning, but they make for good training rather than wasting time in an already busy day. And you also won't have to go back into the crew's mess and wake up half of your division, if not all of it!

I will field any and all calls for products or questions. MMC (SS) Shawn W. Irish. Engineering and Auxiliary Systems Project Manager.

FEEDBACK FORUM

Thank you very much if you are among those who have taken time out of their busy day to send us constructive criticism in an effort to improve SOBT products. PLEASE keep those cards and letters coming!

The winner of the prestigious SOBT feedback of the quarter award for the past quarter (October-December) is **USS HENRY M. JACKSON (SSBN 730) (BLUE)** for providing very detailed feedback on *the Submarine Electrical Safety* video (SOBT video #17). JACKSON (BLUE) pointed out that:



In general, most of the information presented is trite and overtly obvious even to the most junior electrician. Though some of the ambiguous safety requirements are included, even they are grazed over leading to more questions than answers. Over the past three years there have been significant changes to fuse pulling requirements, partial electrical safety and to section 4309 of the ship's organization and regulations manual (SORM). There has been much controversy in the fleet regarding the past conflicts between the SORM and NSTM Chap. 300. These conflicts have been resolved and now the two work hand in hand providing detailed instruction on electrical safety requirements. The SORM is not included as a reference nor is its information provided in the video. The Fleet Maintenance Manual provides safety precautions concerning the ship service battery, however, it too is not included. The sign depicted in the electrical safety area in the

video is incorrect according to the electrical safety checklist in the SORM. Fuse removal/installation requirements are not covered. The basics of electrical safety - such as verifying equipment de-energized, the details of the checklist, and the reasons behind the electrical safety program are not covered in any significant detail. Portable equipment tool checks were not covered. Extension cords/shore power were not covered. The incident report section was remotely interesting but could be greatly expanded bases on the number of incidents reported to the safety center each year. In general an area such as electrical safety should be broken down into several areas the various 30-40 minute videos could do this program justice. A single 15 minute video is very inadequate.

EDITOR'S NOTE:

We at SOBT were really SHOCKED to receive this in depth (puns intended), constructive feedback on one of our older products.

I would like to personally compliment and thank my dedicated SHIPMATES on the H.M.J (BLUE) for their comprehensive, accurate review comments on this SOBT video. This video was developed by THE NAVY SAFETY CENTER as introductory electrical safety training in 1991. and may be outdated in some respects and not as comprehensive as we would like. You are also correct in stating that one 15 minute electrical safety topic cannot possibly cover all aspects of submarine electrical safety. Due to your precise comments and recommendations, 3 new sub electrical safety topics have been added to the 1999 SOBT priorities list. THANKS AGAIN MATES!! Your point of contact is Mr. Joe Valchar.

The silver medal for this quarter goes to a very deserving **SUBTRAFAC NORFOLK** for the following observation:

No warning was stated during the receipt inspection of the afterbody while checking the propeller to the mine. These blades are extremely sharp. During the loading of the SLMM mine, the ball lock pin was not removed for the loading arm, prior to aligning it up with the loading pole. Overall, this tape was very informative on the receipt inspection, shipping and handling, and tube loading.

EDITOR'S NOTE:

THANK YOU, THANK YOU, SUBTRAFAC NORFOLK. SOBT is again grateful for your continued demonstrated interest in training product development and accuracy. OD44979, vol.12, ACN2-2, 15 May 97, OP1, Receipt Inspection for SLMM MK67 was used as Government Furnished Information (GFI) for this SOBT video. The OP does not include any Caution or Warning during the prop inspection steps. This video is due to be updated because of procedural changes and both your constructive comments will be discussed in depth prior to this updated SOBT production. Your point of contact is Mr. Joe Valchar.

The Bronze Medal for this quarter goes to **SUBRON FOUR** for the following comments regarding The *Submarine Special Warfare Operations* video (SVT-GT-9449):

Very good video. Especially suited for the ship that has never done these types of ops before. Having done these ops, the ship doesn't get an appreciation for how much water can possibly be taken on board during surface launch. I was on a 637 which did ops with marines and seals, and the bathtub we used took on about 3 feet of water, and a submersible pump was used to supplement the drain. Also hovering at p/d for lock in /lock outs requires close coordination between the DOOW/COW and team when the escape trunk is flooded and drained.

EDITOR'S NOTE:

SUBRON FOUR, THANK YOU VERY MUCH for taking the time to review and comment on this

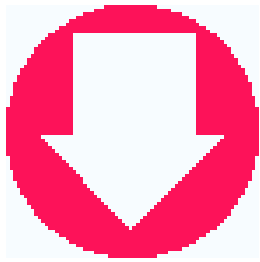
SOBT product, particularly during this hectic time of your initial organization. We at SOBT agree that some of our most valued training products are in support of infrequently done missions, evolutions, and procedures. There will soon be another Spec Warfare video called "Navy Special Warfare Operations" (SVT-T-9639). This baby is also loaded to the gunnels with infrequently used UNTIL YOU NEED IT information. In still future updates, (i.e 688,s with DDS), we will also stress your feedback comments on depth control and seawater intake. Your point of contact is Mr. Joe Valchar.

Honorable Mention winner. This high privilege and distinct honor goes to **USS MONTPELIER (SSN 765)** for their observations on the *Basic Submarine Navigation* video (SVT-N-9310). MONTPELIER said:



I found the above video tape to be too simplistic to obtain any good training value. Would like to see some navigation video tapes which deal with scenario driven rules of the road problems with an accompanying study guide. Because this would be beneficial for both wardroom and NAVOPS dept. training.

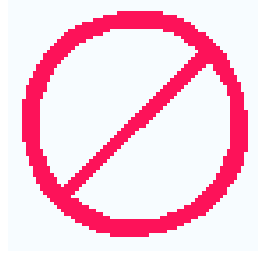
EDITOR'S NOTE: THANKYOU USS MONTPELIER (SSN 765) We agree with your comments and request for products to meet those needs. The first one you will be seeing real soon is the **NEW Rules of the Road** courseware. The new version has a scenario-based problem solving section to put the trainee in the hot seat to make required decisions. The 2nd product we are working on is a software based piloting brief that includes everything covered in a port piloting brief as well as provide the scope operator with actual footage of the nav aids available for that port. This will aid not only current piloting parties with their present homeports but also help when your piloting into a new port. The first two to be completed this year are Kings Bay and New London. We are also working on an update to the current video so it is current and provides more in depth training to both wardroom and Dept training.



SOBT Products Distributed This Quarter

Code of Conduct (SVT-DC-9659)
 Signal Recognition Trainer (CBI-EW-9846)
 Submarine Ship Control Training Program for 688 Class, Version 1.0 (CBI-SC-9755)
 AN/BSY-2 MK 48 ADCAP Launch Operator Training (CBI-W-9845)
 Type-18H Mod 1 Differences ICW Version 1.0 (CBI-EW-9717)
 25 Foot RS-232 Serial Cable for CMTPC (CBI-W-9652)
 C4/O5 Launch Tube Air Tightness Test (ICW-L-002)
 Seawolf Class Qualification Program, Potable Water, SQ# 31, Version 1.0 (CBI-SQ-97117)
 Seawolf Class Qualification Program, Plumbing, SQ# 32, Version 1.0 (CBI-SQ-97118)
 Seawolf Class Qualification Program, TDU/Trash Compactor, SQ# 33, Version 1.0 (CBI-SQ-97119)
 Seawolf Class Qualification Program, Anchor and Capstan, SQ# 34, Version 1.0 (CBI-SQ-97120)
 Seawolf Class Qualification Program, Refrigeration, SQ# 35, Version 1.0 (CBI-SQ-97121)
 Seawolf Class Qualification Program, EAFW System, SQ# 36, Version 1.0 (CBI-SQ-97122)
 Seawolf Class Qualification Program, R114 Air Conditioning Plants, SQ# 37, Version 1.0 (CBI-SQ-97123)

Seawolf Class Qualification Program, Weapons Shipping and Handling, SQ# 41, Version 1.0 (CBI-SQ-97127)
 Seawolf Class Qualification Program, Navigation, SQ# 45, Version 1.0 (CBI-SQ-97131)
 Seawolf Class Qualification Program, Quartermaster of the Watch, WQ# 8, Version 1.0 (CBI-SW-9872)
 Seawolf On Board Training Program, 155 VDC, OBT# 9, Version 1.0 (CBI-SW-9874)
 Seawolf On Board Training Program, ICCP, OBT# 8, Version 1.0 (CBI-SW-9875)
 Seawolf On Board Training Program, Power Conditioner, OBT# 11, Version 1.0 (CBI-SW-9876)



SOBT Products Deleted This Quarter

Submarine Fire Hazards (SOBT #6)
 Aids Awareness (SOBT #15)

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